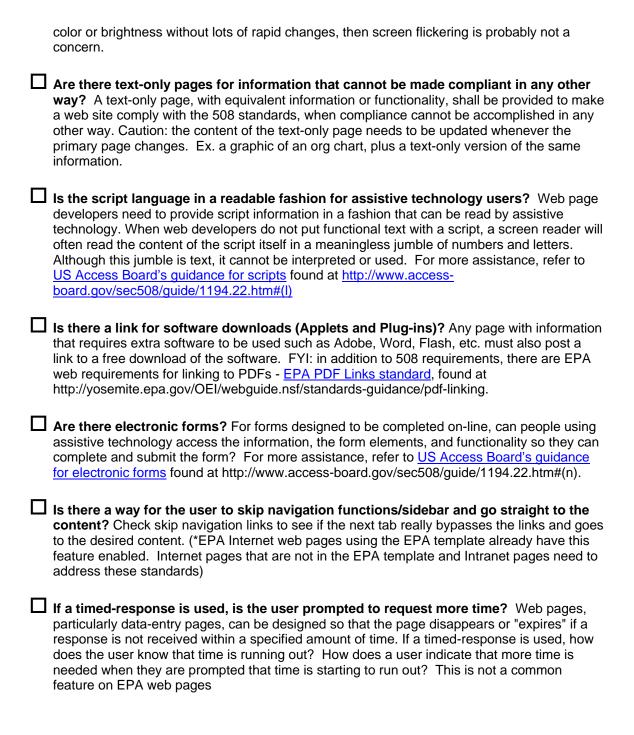
Checklist: Web Sites and Web-based Applications

This checklist identifies some of the most commonly occurring 508 accessibility issues for Web site and Web-based applications. Every web page is different – you may not need to address each item in the checklist. It may help to use the Life Cycle Project Plan Outline (http://intranet.epa.gov/isc/surftest/508/internet-new/procurement/508 compliance toolkit web apps.htm#lifecycle) to help you determine which

<u>new/procurement/508_compliance_toolkit_web_apps.htm#lifecycle</u>) to help you determine which checklist items may apply. This checklist can be used several ways throughout the life-cycle of your project:

to help plan during project planning; to test for 508 compliance; and to communicate with project stakeholders about the 508 compliance.
Can you use the keyboard instead of the mouse? Use the keyboard exclusively to navigate through web pages & applications (particularly the tab and enter keys). Are all areas of the screen accessible? Are there keystrokes available for all mouse actions? Are there a minimum number of keystrokes to get to desired areas? Can you execute an action using the enter key without using a mouse?
Does the cursor move in a logical order or flow? Use the tab key to check where the cursor moves from one element to the next. The cursor should follow a logical order and not be random, e.g., the cursor should move top to bottom, left to right, or flow according to content.
Do the elements do what they are supposed to do? Use the return key after selecting a link or control element (e.g., radio buttons, boxes) to check for the appropriate action. For example, if you select a link, using the return key the link is opened; selecting a folder, opens the folder, etc.
Is there ALT text for all non-text elements? Check non-text elements (images, buttons, etc.) for appropriate alt (alternative) text. Alt text is needed when the image provides context or information or links to other areas. Alt text does not need to be provided for images that are for pure decoration, but does require the proper html code (ALT=""). Using this html code (ALT="") will tell the software not to read the graphic and will help the screen reader user. If you are familiar with code, you can look at the html code to check for alt text. If you are not a coder, place the mouse over the graphic or element and check for a box that appears with the text, similar to caption boxes.
Does the link text explain what the link "does"? Make sure that links make sense out of context. Avoid the use of "click here" and other vague instructions for links. Ex. Instead of "Click here" for a report use "Read the Report". People who use screen readers typically listen to all the links first to make sure they want to use the page. "Click Here" provides no context.
Are there captions for audio and visual elements or transcripts for audio only elements? If there is audio/visual multimedia, look for an indication that there are captions (symbol "CC", word "captions" or "text", etc.). How does the user know that there are captions? Do the captions work? Can you turn them on? Are the captions synchronized with the audio/visual elements? If it is audio only (ex. a radio broadcast or a podcast), look for a transcript (words such as "text", "transcript", "transcription", "script").

Is color the only means of identification of elements on a page? When colors are the only way to identify elements or controls on the screen, persons who are color blind, blind, or have low vision may find the web page unusable. Ex. a web page that directs a user to "press the red button to stop" should also identify the red button in another way than simply by color. To test for color: view the page on a black and white monitor, or print the page out on a black and white printer. Both methods will show if the removal of color affects the usability of the page.
Are documents organized so they are readable without requiring an associated style sheet? Since a style sheet is not required to create basic Web pages, you can just avoid style sheets entirely. But in cases where a style sheet is used, the Web page must be organized so that the information can still be accessed even for browsers that cannot use style sheets. When web developers set up their pages to override user-defined style sheets, people with disabilities may not be able to use those pages. It is critical that designers ensure that their web pages do not interfere with user-defined style sheets. You can avoid using style sheets altogether or you can use "external" style sheets, in which the style rules are set up in a separate file.
Are there server-side image map or client-side image maps? An "image map" is a picture (often an actual map) on a web page that provides different "links" to other web pages, depending on where a user clicks on the image. There are two basic types of image maps: "client-side image maps" and "server-side image maps." With client-side image maps, each "active region" in a picture can be assigned its own "link" (called a URL or "Uniform Resource Locator") that specifies what web page to retrieve when a portion of the picture is selected. If the web page uses a server-side image map to present the user with a selection of options, then a redundant text link is necessary to provide access to the page for anyone not able to see or accurately click on the map. FYI, at EPA you must use the standard US and regional maps and associated code for displaying information and to link to local information when applicable. The standard maps have the accessibility requirements taken care of for you. The EPA standard for maps of the US is available at http://yosemite.epa.gov/OEI/webguide.nsf/standards-guidance/maps2. If you create other maps, you will need to address this 508 standard.
Are tables coded properly? Tables are permitted, but 508 requires that tables be coded according to the rules of the markup language being used for creating tables. Large tables of data can be difficult to interpret if a person is using a non-visual means of accessing the web. Users of screen readers can easily get "lost" inside a table because it may be impossible to associate a particular cell that a screen reader is reading with the corresponding column headings and row names. The 508 standards apply to tables that have two or more logical levels of row or column headers. For more assistance, refer to <u>US Access Board's guidance for tables</u> found at http://www.access-board.gov/sec508/guide/1194.22.htm#(g).
Does your web site have frames? Frames are not allowed at EPA. Do not use them. For more information, refer to the <u>EPA Standard on Frames</u> [http://yosemite.epa.gov/OEI/webguide.nsf/standards-guidance/frames]
Does the screen flicker with a frequency greater than 2 Hz and lower than 55 Hz? Some individuals with photosensitive epilepsy can have a seizure triggered by displays, presentations, backgrounds, and images that flicker, flash, blink, or rapidly change from light to dark within the range above. Do not use visuals that produce any vivid light-dark differences that change or flash between these rates. If your Web site is generally the same



Additional assistance on these standards is provided by the US Access Board, the Agency responsible for the Section 508 Standards with their <u>Guide to the Section 508 Standards for Web sites and Web-based Applications.</u> [http://www.access-board.gov/sec508/guide/1194.22.htm]